

SF2600 Ceramic Sleeving

INTRODUCTION



Amphenol CDI (ACDI) SF2600 Ceramic Sleeving provides **lightweight, high-temperature protection** for wire, cable, and harness assemblies in demanding **aerospace and defense applications**. **Constructed from Nextel® 312 continuous ceramic fiber**, SF2600 offers **exceptional thermal stability, electrical insulation, durability, and flexibility for extreme operating environments**.

Designed for **elevated-temperature environments and harsh operating conditions**, SF2600 helps **protect critical electrical systems and maintain reliable performance**. Manufactured to strict quality standards, ACDI ceramic sleeving delivers dependable protection for mission-critical applications.

SPECIFICATIONS

Fiber Type	Yarn
Temperature Rating (continuous)	+2200°F (1204°C)
Breaking Tenacity	N/A
Tensile Strength	250 (1723) '000 psi/Mpa
Breaking Elongation	1.2%
Specific Gravity	2.70 gms/cc



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MATERIAL CERTIFICATION

PROPERTIES:

Nextel 312 is continuous ceramic fibers suitable for producing textiles without the aid of other fiber of metal inserts. The basic composition by weight is 62% aluminum oxide, 14% boron oxide, and 24% silicon dioxide.

Physical Properties

Color: White

Length: Continuous

Specific Gravity: 2.7 gm/cc

Mechanical Properties

Tensile Strength: 1725 MPa (250,00 psi)

Tensile Modulus: 138 GPa (20×10^6 psi)

Elongation: 1.2%

Note: All data based on averages*

Electrical Properties

Dielectric Constant $5.2 @ 9.375 \times 10^9$ hertz

Thermal Properties

Continuous Use: 1204°C - 2200°F

Short use: 1371°C - 2500°F

Lineal Shrinkage (2000°F-1093°C): 1,25%

Melting Point: 1800°F-3272°F

Thermal Expansion: 25-500°C 3.0×10^{-6}

Specific Heat: 0.25 BTU/lb./F or CAL/gm/°C

Dyes Used: Non-Dyeable

Resistance to Mildew, aging, Sunlight and Abrasion: Resistance to mildew & sunlight. Abrasion resistance is poor.

Specifications: Used by U.S. Military, Aero, and Space Industry

EFFECTS:

Heat: Mechanical performance maintain up to 2200°F. High Resistance thermal shock

Acids and Alkalis: Resistance to virtually all fluids

Nextel® is a registered trademark of the 3M company